

**WHAT IS CLAIMED IS:**

1. A method for determining a genetic material of cocoa in fermented or roasted beans, chocolate or a food component containing cocoa, which method comprises applying a DNA detection technique to the food component to determine the genetic material of cocoa therein.
2. The method of claim 1, wherein the DNA detection technique is PCR, RAPD, RFLP, or microsatellite identification.
3. The method of claim 1, wherein the DNA detection technique includes a sequencing of PCR amplified genes.
4. The method of claim 1, wherein the genetic material to be detected is derived from the 5 S gene of cocoa DNA
5. The method of claim 1, wherein the genetic material to be detected is derived from the chitinase gene of cocoa DNA.
6. The method of claim 1, wherein the genetic material to be detected is derived from the chitinase gene of cocoa DNA.
7. The method of claim 1, wherein the genetic material to be detected is derived from mitochondrial or chloroplastic DNA of cocoa.
8. The method of claim 1, wherein the food component from which the genetic material is to be detected is a variety that has been modified by common breeding techniques or by genetic engineering.